

Materials Science



Materials science involves using physical and chemical properties of solid materials to craft or improve end products.

Hamilton Brook Smith Reynolds applies experience in materials science to assist inventors in obtaining patent protection in several fields, including:

- Biomaterials and biomolecular materials
- Biotechnology and nanotechnology
- Cancer research
- Ceramics
- Composites
- Devices
- Electrochemistry, materials chemistry, and solid-state chemistry
- Electronic, photonic, and magnetic materials
- Energy storage
- Environmental engineering
- Implants
- Materials culture, materials processing, and materials systems and analysis
- Mechanical behavior of materials
- Mechanical properties and nanomechanics
- Micro electro-mechanical systems (MEMS)
- Metallurgy
- Optoelectronics
- Phase transformations
- Polymers
- Self-assembly
- Semiconductors and superconductors
- Structural and environmental materials
- Surfaces, interfaces, and thin films
- Transport phenomena, processes, and properties